WHAT IS CLAIMED IS:

1. An information-processing device comprising:

at least one crossbar-board having a switching element mounted thereon;

a plurality of back panels detachably connected electrically and mechanically to different sides of said crossbar-board; and

at least one motherboard detachably connected electrically and mechanically to each of said back panels, the motherboard having an information-processing semiconductor element mounted thereon, wherein said crossbar-board has a rectangular shape, and said back panels are connected to longitudinal sides of said crossbar-board, the plurality of the back panels opposing each other.

2. The information-processing device as claimed in claim 1, wherein

said crossbar-board further comprises connectors connecting the longitudinal sides of said crossbar-board to said back panels, each of the connectors having a connecting face parallel to a surface of said crossbar-board,

said back panels further comprise connectors respectively connecting said back panels to the longitudinal sides of said crossbar-board, each of the connectors having a connecting face perpendicular to a surface of each of said back panels, and

said crossbar-board is movable in a direction perpendicular to the surface thereof so as to connect said connectors thereof to said connectors of said back panels.

3. The information-processing device as claimed in claim 1, wherein said crossbar-board further comprises at least one extension crossbar-board connected at an end of said crossbar-board in a longitudinal direction.

4. An information-processing device comprising:

at least one crossbar-board having a switching element mounted thereon;

a plurality of back panels detachably connected electrically and mechanically to different sides of said crossbar-board; and

at least one motherboard detachably connected electrically and mechanically to each of said back panels, the motherboard having an information-processing semiconductor element mounted thereon,

wherein said crossbar-board has a polygonal shape, and the plurality of the back panels are connected to the different sides of said crossbar-board, the plurality of the back panels being more than two.

5. An information-processing device comprising:

a crossbar board-back panel assembly comprising a plurality of crossbar-boards each having a switching element mounted thereon, and a plurality of back panels detachably connected electrically and mechanically to different sides of each of said crossbar-boards; and

a plurality of motherboards detachably connected electrically and mechanically to each of said back panels, each of the plurality of the motherboards having an information-processing semiconductor element mounted thereon,

wherein each of said back panels is formed by a plurality of strip panels arranged at positions corresponding to said motherboards, the plurality of the strip panels crossing said crossbar-boards.

6. An information-processing device comprising:

a crossbar board-back panel assembly comprising a plurality of crossbar-boards each having a switching element mounted thereon, and a plurality of back panels detachably connected electrically and mechanically to different sides of each of said crossbar-boards; and

a plurality of motherboards detachably connected electrically and mechanically to each of said back panels, each of the plurality of the motherboards having an information-processing semiconductor element mounted thereon,

wherein each of said back panels is formed by a plurality of strip panels arranged at positions corresponding to said crossbar-boards, said motherboards crossing the plurality of the strip panels.